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1 Combining RDF and XML schemas to enhance interoperability between metadata



application profiles

Jane Hunter, Carl Lagoze

April 2001 Proceedings of the 10th international conference on World Wide Web

Publisher: ACM Press

Full text available: 📆 pdf(525.04 KB) Additional Information: full citation, references, citings, index terms

Keywords: RDF, XML, XSLT, interoperability, metadata, schema

2 Location-based services and mobile computing: data models: Metadata modeling in a



global computing environment

Dieter Pfoser, Evaggelia Pitoura, Nectaria Tryfona

November 2002 Proceedings of the 10th ACM international symposium on Advances in geographic information systems

Publisher: ACM Press

Full text available: pdf(264.88 KB)

Additional Information: full citation, abstract, references, citings, index

Emerging computational paradigms such as global and ubiquitous computing require some rethinking and innovative research ideas in many computer science areas. In this work, we aim at studying a mobile computing scenario from the database perspective. Given a global computing environment in which data is kept in a number of small-scale, data-charged, mobile devices that use, e.g., wireless networks, for communication, we want to assess the overall data scenario. We use an example to abstract the ...

Keywords: global computing, metadata, mobile computing, mobile devices, mobile ontologies, spatiotemporal databases

3 Knowledge representation and retrieval: Metadata models for QoS-aware information

, management systems

Almerindo Graziano, Stefano Russo, Vincenzo Vecchio, Paul Foster

July 2002 Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02

Publisher: ACM Press

Full text available: pdf(81.19 KB) Additional Information: full citation, abstract, references, index terms

The provisioning of multimedia services with guaranteed Quality-of-Service (QoS) is currently an important research issue in computer engineering, especially in the networking and information management areas. In this paper, we concentrate on the QoS-based provisioning of discovery and delivery services of multimedia resources in the educational application domain. We present a generic model for QoS-aware information management systems, able to support quarantee of the QoS in search and delivery ...

Keywords: QoS, metadata, profile, quality of service, standards

4 Prefetch injection based on hardware monitoring and object metadata



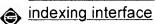
Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(288.00 KB)

Cache miss stalls hurt performance because of the large gap between memory and processor speeds - for example, the popular server benchmark SPEC JBB2000 spends 45% of its cycles stalled waiting for memory requests on the Itanium® 2 processor. Traversing linked data structures causes a large portion of these stalls. Prefetching for linked data structures remains a major challenge because serial data dependencies between elements in a linked data structure preclude the timely materialization ...

Keywords: cache misses, compiler optimization, garbage collection, prefetching, profileguided optimization, virtual machines

5 Service selection and metadata: Automating metadata generation: the simple



Kris Cardinaels, Michael Meire, Erik Duval

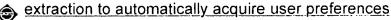
May 2005 Proceedings of the 14th international conference on World Wide Web **Publisher: ACM Press**

Full text available: Topdf(302.39 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we focus on the development of a framework for automatic metadata generation. The first step towards this framework is the definition of an Application Programmer Interface (API), which we call the Simple Indexing Interface (SII). The second step is the definition of a framework for implementation of the SII. Both steps are presented in some detail in this paper. We also report on empirical evaluation of the metadata that the SII and supporting framework generated in a real-life c ...

Keywords: learning objects, metadata generation

6 Technical Papers: Applying natural language processing (NLP) based metadata



Woojin Paik, Sibel Yilmazel, Eric Brown, Maryjane Poulin, Stephane Dubon, Christophe Amice October 2001 Proceedings of the 1st international conference on Knowledge capture K-CAP '01

Publisher: ACM Press

Full text available: pdf(210.42 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a metadata extraction technique based on natural language





processing (NLP) which extracts personalized information from email communications between financial analysts and their clients. Personalized means connecting users with content in a personally meaningful way to create, grow, and retain online relationships. Personalization often results in the creation of user profiles that store individuals' preferences regarding goods or services offered by various e-commerce merch ...

Keywords: metadata extraction, natural language processing, user preference elicitation

Ubiquitous WWW: Profiles for the situated web

Lalitha Survanarayana, Johan Hielm

May 2002 Proceedings of the 11th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(263.89 KB) Additional Information: full citation, abstract, references, index terms

The World Wide Web is evolving into a medium that will soon make it possible for conceiving and implementing situation-aware services. A situation-aware or situated web application is one that renders the user with an experience (content, interaction and presentation) that is so tailored to his/her current situation. This requires the facts and opinions regarding the context to be communicated to the server by means of a profile, which is then applied against the description of the application o ...

Keywords: CC/PP, XML, profiles, situated-aware applications, vocabulary, web architecture

8 Poster papers - short papers: Ontology-driven peer profiling in peer-to-peer enabled



semantic web

Olena Parkhomenko, Yugyung Lee, E. K. Park

November 2003 Proceedings of the twelfth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: Tope of (240.06 KB) Additional Information: full citation, abstract, references, index terms

Peer-to-peer (P2P) systems and Semantic Web are two novel technologies that face a lot of shortcomings if considered as isolated paradigms. We present an approach that utilizes ontologies to set up a peer profile containing all the data, necessary for peer-to-peer interoperability. Using this profile can help eliminate some major issues persistent in current P2P networks, such as security, resource aggregation, group management. We also consider applications of peer profiling for Semantic Web bu ...

Keywords: P2P, ontology, peer profile, profiling, semantic web

9 Posters: JISC metadata schema registry

Rachel Heery, Pete Johnston, Dave Beckett, Nikki Rogers

June 2005 Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(27.55 KB) Additional Information: full citation, references, index terms

Keywords: dublin core, learning object metadata, metadata, registry

mPERSONA: personalized portals for the wireless user: An agent approach

